

In the Drawings:

The attached drawing sheets includes changes to Figs. 4 and 14-21. In Figs. 4 and 14-21, a legend "Prior Art" has been added. These sheets which include Figs. 4 and 14-21 replace the original sheets including Figs. 4 and 14-21.

Attachments: Nine (9) Replacement Drawing Sheets.

REMARKS**I. Status of the Claims:**

Claims 12, 15-19 and 22-25 are currently pending. By this Amendment, claims 12 and 22 have been amended. Accordingly, upon entry of this Amendment, claims 12, 15-19 and 22-25 would be pending.

No new matter has been introduced by this Amendment. Entry of this Amendment is respectfully requested.

II. Drawings:

The Examiner indicates that Figs. 4 and 14-21 should be designated by a legend such as --Prior Art--. In accordance with the Examiner's suggestions, these Figures have been amended with the legend --Prior Art--. The replacement sheets for these Figures are submitted herewith for approval by the Examiner.

III. Specification:

The Examiner indicates that the title of the invention is not descriptive and the Examiner suggested the new title as --CDD Array--. The Examiner has also objected to the specification due to some informalities.

The Title of the invention and the specification has been amended in accordance with the Examiner's suggestions. Thus, reconsideration and withdrawal of these objections are respectfully requested.

IV. Rejections under 35 U.S.C. § 112, ¶2:

Claim 25 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter.

Claim 25 recites that in the second transferring mode, said pulse supply unit continuously outputs signals from the first element array. To assist the Examiner, this subject matter is supported and described for example in the application on page 23, lines 1-7 (see paras [0073] and [0074] of the published application), and the “low-resolution mode in the first embodiment” is further described on page 16, lines 9-21 (see para [0052] of the published application). Furthermore, the claim language itself is definite.

Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

V. Rejections under 35 U.S.C. §§ 102 and 103:

Claims 12, 15, 16 and 22-25 are rejected under 35 U.S.C. § 102(e) as being anticipated by Weimer (US Patent 4,242,700). Claims 17, 18 and 19 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Weimer in view of Roustaei (US Patent 5,354,977).

Claim 12, as amended, is directed to an arrangement including a pulse supply unit for supplying at least three types of the transfer pulses having different phases to a first shift register and supplying at least three types of the transfer pulses having different pulses to a second shift register. The first and second shift registers add up two signals outputted from two adjacent elements during serially transferring the signals in response to the at least three types of transfer pulses having different phases.

The Examiner alleges on pages 6 and 7 of the Final Office Action that “a first shift register” in Claim 12 is shown in Weimer as 94 of Fig. 6 and “a second shift register” in Claim 12 is shown in Weimer as 96 of Fig. 6. However, the transfer electrodes 94 and 96 merely receive one kind of pulse $\phi 1$.

Thus, Weimer does not disclose or suggest that at least three types of the transfer pulses are supplied to a shift register. Furthermore, Weimer does not disclose or suggest that the shift register adds up two signals outputted from two adjacent elements during serially transferring the signals, in response to the supplied at least three types of transfer pulses having different phases.

Accordingly, claim 12 and its dependent claims are not anticipated by Weimer and are believed to be distinguishable over the cited references, individually or in combination. For similar reasons, claim 22 and its dependent claims are also not anticipated by Weimer and are believed to be distinguishable over the cited references, individually or in combination.

AUTHORIZATION

The Commissioner is hereby authorized to charge any additional fees which may be required for consideration of this Amendment to Deposit Account No. 13-4500, Order No. 1232-4729.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an extension of time to Deposit Account No. 13-4500, Order No. 1232-4729.

Respectfully submitted,
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Dated: _____

7/19/06

By: _____



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